

Algebra 1 Bellwork

1. You will need your composition book today.
3. Answer the following in your FRIDAY section of your new bellwork sheet:

Solve:

$$14 + (-22)$$

$$-8$$

$$23 - x^2 \text{ for } x=-5$$

$$23 - (-5)^2$$

$$23 - 25 = -2$$

PROPERTIES OF REAL NUMBERS

Let a , b , and c represent real numbers.

Property	Addition	Multiplication
Closure	$a+b$ is a real #	$a \cdot b$ is a real #
Commutative	$a+b = b+a$	$a \cdot b = b \cdot a$
Associative	$a+(b+c) = (a+b)+c$	$a(b \cdot c) = (a \cdot b)c$
Identity	$a+0 = a$	$a \cdot 1 = a$
Inverse	$a+(-a) = 0$	$a \cdot \frac{1}{a} = 1$
Distributive	$a(b+c) = a \cdot b + a \cdot c$	

Write the following expressions on the right side of your comp. book and identify the property that was used to simplify.

$$-2(y + \underline{4 + 6y}) = -2(y + \underline{6y + 4})$$

commutative prop. of addition

$$16x^2 + 4x + 4 = 4(4x + x + 1)$$

Distributive prop.

$$18x + [2x + (4x + 1)] = 18x + [(2x + 4x) + 1]$$

Associative prop. of addition